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Subject: [Non-DoD Source] HPNS Parcel E Phase 1 and Phase 3 Weekly CQC Meetings **Attachments:** D2005 CTO 0024 Project QC Meeting No. 028 Parcel E Phase 1 Agenda 2020-0707.pdf; D0006 CTO 4761 Project QC Meeting 013 Parcel E Phase 3 070720 Agenda_Rev02.pdf

Attached are the handouts for the weekly CQC call.

Regards,

Kevin

Kevin Hoch

Quality Control Manager

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Project QC Meeting #013 Agenda (07/07/2020)

Parcel E Remedial Action – Phase 3 Hunters Point Naval Shipyard, San Francisco, CA Contract N62473-17-D-0006 CTO 4761

Call-in number: (b) (4)

Start: 1120 End:

Safety Topic: High Winds

Old Business

Submittals

- Submittal 001 Rebar for Seawall
 - Submitted to Navy for informational purposes only on 2/17/20
- Submittal 002 Shoring Design
 - o Approved by Navy on 03/24/20
- Submittal 003 Slurry Mix Design
 - o Approved by Navy on 02/27/20
- Submittal 004 Import Fill (Stanford Pile)
 - o Approved by Navy on 03/24/20
- Submittal 005 Drain Rock (Virgin Source Material Vulcan Pilarcitos Quarry in Half Moon Bay and Hanson Aggregates Sunol Quarry)
 - o Approved by Navy on 03/24/20
- Submittal 006 Rip Rap Armor Stone (Product data sheets/test reports)
 - o Approved by Navy 5/18/20
- Submittal 007 Slurry Wall Implementation Plan
 - o Approved by Navy 5/18/20
- Submittal 008 Filter Fabric Product Data
 - o Submitted to Navy on 6/01/20
 - Note that product data was also submitted for informational purposes for the Geogrid Reinforcement required for armored revetment at IR02 NW (the project specs for which *do not* require government approval)
- Submittal 009 Cone Penetrometer Testing (CPT) Investigation
 - o Awaiting final Navy approval

New Business

Status of Work

- Completed installation of Slurry Wall
- Preparation for installation of Slurry Wall Cap
- UXO Construction Oversight
- Radiological controls and support
- Site maintenance ongoing (BMPs, fencing, etc.)
- Ongoing upwind and downwind continuous air monitoring, as well as work area real-time dust monitoring using personal data RAMs (pDRs)

Project QC Meeting #013 Agenda (07/07/2020)

Parcel E Remedial Action – Phase 3 Hunters Point Naval Shipyard, San Francisco, CA Contract N62473-17-D-0006 CTO 4761

Analytical Results

• No new analytical results received

Navy QA Oversight Update

- Biologists
- UXO
- RAD

Visitors

- Hamid Naimi Navy ROICC
- Doug Delong Navy CSO
- Jamie DelPozzo BioMaAS

Work to be accomplished the remainder of this week

- Install Slurry Wall Cap and Surface Completions
- Rad Controls and support
- UXO support
- Daily air monitoring
- Site maintenance (BMPs, fencing, etc.)

Work to be accomplished in the next two weeks (See attached 2-week look ahead)

- Radiological Characterization of large debris from EOS-1, EOS-2, EOS-4
- Install Slurry Wall Cap and Surface Completions
- Demobilization of slurry wall batch plant and equipment
- Excavation of upland soil for geogrid anchor
- Rad Controls and support
- UXO support
- Daily air monitoring
- Site maintenance (BMPs, fencing, etc.)

<u>Inspections</u>

Preparatory

• None

Initial

• None

Follow-up

- Dust Control and Air Monitoring
- Radiological Controls
- Topographical Survey
- IR02-NW Slurry Wall Construction
- UXO Construction Oversight

Project QC Meeting #013 Agenda (07/07/2020)

Parcel E Remedial Action – Phase 3 Hunters Point Naval Shipyard, San Francisco, CA Contract N62473-17-D-0006 CTO 4761

Off-site Work or Materials Testing

• None

Additional Documentation Required

• None

QC, Production Issues

• None

Safety Issues

• All work was completed safely with no accidents or near misses reported.

Items That May Require Revising Project Plans

• None

Action Items

• None

Comments/Questions

Current Week and Two Week Look Ahead*

Parcel E Remedial Action – Phase 3 Hunters Point Naval Shipyard, San Francisco, CA Contract N62473-17-D-0006 CTO 4761

07/06/2020	07/07/2020	07/08/2020	07/09/2020	07/10/2020	07/11/2020	07/12/2020
Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
 Complete Slurry Wall installation Rad Controls and support (all week) UXO support (all week) Air monitoring (all week) BMP Inspection/ site maintenance (Daily) 	Weekly CQC Meeting Install Slurry Wall Cap & Surface Completions	Install Slurry Wall Cap & Surface Completions	Install Slurry Wall Cap & Surface Completions	Install Slurry Wall Cap & Surface Completions	No fieldwork	No fieldwork
07/13/2020	07/14/2020	07/15/2020	07/16/2020	07/17/2020	07/18/2020	07/19/2020
Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Large Debris Radiological Screening in EOS-1, EOS-2, & EOS-4 Install Slurry Wall Cap & Surface Completions Excavate Upland Soil for Geogrid Anchor Rad Controls and support (all week) UXO support (all week) Air monitoring (all week) BMP Inspection/ site maintenance (Daily)	Weekly CQC Meeting Large Debris Radiological Screening in EOS-1, EOS-2, & EOS-4 Excavate Upland Soil for Geogrid Anchor Install Slurry Wall Cap & Surface Completions	Large Debris Radiological Screening in EOS-1, EOS-2, & EOS-4 Excavate Upland Soil for Geogrid Anchor Install Slurry Wall Cap & Surface Completions	Large Debris Radiological Screening in EOS-1, EOS-2, & EOS-4 Excavate Upland Soil for Geogrid Anchor Install Slurry Wall Cap & Surface Completions	Large Debris Radiological Screening in EOS-1, EOS-2, & EOS-4 Excavate Upland Soil for Geogrid Anchor Demob slurry wall batch plant and equipment	No fieldwork	No fieldwork
07/20/2020	07/21/2020	07/22/2020	07/23/2020	07/24/2020	07/25/2020	07/26/2020
Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Excavate Upland Soil for Geogrid Anchor Large Debris Radiological Screening in EOS-1, EOS-2, & EOS-4 Rad Controls and support (all week) UXO support (all week) Air monitoring (all week) BMP Inspection/ site maintenance (Daily)	Weekly CQC Meeting Excavate Upland Soil for Geogrid Anchor Large Debris Radiological Screening in EOS-1, EOS-2, & EOS-4	Excavate Upland Soil for Geogrid Anchor Large Debris Radiological Screening in EOS-1, EOS-2, & EOS-4	Excavate Upland Soil for Geogrid Anchor Large Debris Radiological Screening in EOS-1, EOS-2, & EOS-4	Excavate Upland Soil for Geogrid Anchor Large Debris Radiological Screening in EOS-1, EOS-2, & EOS-4	No fieldwork	No fieldwork

^{*}Subject to change based on field conditions

Project QC Meeting #028 Agenda (07/07/2020)

Parcel E Remedial Action – Phase 1 Hunters Point Naval Shipyard, San Francisco, CA Contract N62473-12-D-2005 CTO 0024

Call-in number: (b) (4)

Start: 1100 End:

Safety Topic: High winds

Old Business

Field Change Requests (FCR)

- 001: Existing SS/SD lines in RA excavations Navy Approved (05/01/20)
- 002: ISO-Pacific Soil Sorting System (S3) Proof of Concept Demonstration.
 - Approval was received by APTIM on 12/31.
- 003: Former SS/SD trenches in RA excavations In Navy review
- 004: Excavation Dewatering Navy approved 3/12
- 005: Addition of back-up laboratory (Enthalpy) to expedite TAT –Navy RPM approved 3/12/2020. SAP addendum (FCR) submitted 3/13/2020 to QAO. 4/17/20 canceled as Enthalpy lab closed (permanently out of business)
- 006: Impacts of the radiological rework areas on non-excavation, intrusive RA activities (i.e. well installation/decommissioning, GW injections, and soil gas surveys). APTIM prepared draft FCR; but on hold as need Navy to confirm extent of rework areas and potential limitations to planned Phase 1 RA work outside of IR-02 to identify impacts. on hold

Submittals

- Submittal 001 Import Fill (Stanford Pile)
 - Approved by Navy on 12/19/19; CDPH 01-08-2020
- Submittal 002 Drain Rock (Virgin Source Material Vulcan Pilarcitos Quarry in Half Moon Bay and Hanson Aggregates Sunol Quarry)
 - Approved by Navy on 02-27-2020

New Business

Status of Work

- Continued transferring soil to stockpiles and screening to 2-inch minus with PowerScreen
- Completed excavations EX02B524, EX02GR117SW
 - Collected confirmation samples
- Started excavation EX02GR73SW
- Conducted over-excavations at EX02B412
 - Collected confirmation samples
- Backfilled EX02B456 and EX02B412
- Continued S3 Proof-of-Concept Demonstration
- Site maintenance (BMPs, fencing, etc.)
- Sanitized all equipment daily
- Conducted upwind and downwind continuous air monitoring as well as work area real-time dust monitoring using personal data RAMs (PDRs).

Project QC Meeting #028 Agenda (07/07/2020)

Parcel E Remedial Action – Phase 1 Hunters Point Naval Shipyard, San Francisco, CA Contract N62473-12-D-2005 CTO 0024

Analytical Results

• See attached, new results are highlighted.

Navy QA Oversight Update

- Biologists
- UXO
- RAD

Visitors

- Hamid Naimi Navy ROICC
- Doug Delong Navy CSO
- Jamie DelPozzo BioMaAS

Work to be accomplished the remainder of this week

- Complete excavations EX02GR73SW
- Backfill EX02GR93SW
- Continue screening excavated soil to remove smaller debris
- Conduct post-excavation sampling
- Continue S3 Proof-of-Concept Demonstration with RSY Pad Screening
- Waste stockpiling
- Air monitoring, site maintenance (BMPs, fencing, etc.)

Work to be accomplished in the next two weeks (See attached current plus 3-week look ahead)

- Continue excavations in EOS-4
- Conduct backfilling of excavations as appropriate
- Screen excavated soil to remove smaller debris
- Continue S3 proof of concept with RSY pad screening
- Load, place and scan soil on RSY Pads
- Conduct upwind and downwind continuous air monitoring as well as work area real-time dust monitoring using personal data RAMs (PDRs).
- Site maintenance (BMPs, fencing, etc.)

<u>Inspections</u>

Preparatory

None

Initial

None

Project QC Meeting #028 Agenda (07/07/2020)

Parcel E Remedial Action – Phase 1 Hunters Point Naval Shipyard, San Francisco, CA Contract N62473-12-D-2005 CTO 0024

Follow-up

- Dust Control and Air Monitoring
- Radiological Controls
- UXO Construction Oversight
- Soil Excavations
- Confirmation Sampling

Off-site Work or Materials Testing

o None

Additional Documentation Required

o None

QC, Production Issues

o None

Safety Issues

o All work was completed safely with no accidents or near misses reported.

Items That May Require Revising Project Plans

o None

Action Items

Comments/Questions

Analytical Results Final Confirmation Soil Samples

Remedial Action at Parcel E - Phase 1 Hunters Point Naval Shipyard, San Francisco, California Contract N62473-12-D-2005 CTO 0024

Excavation ID	Date Sampled	Meets Tier 2 Criteria	Chemicals of Concern	Comments
EX02B456	6/5/20- 6/8/20	Y	Copper, Zinc, TPH	Ready for backfill
EX02B401	5/21/20- 6/01/20	N	Aroclor-1260	AR1260 (31,000 mg/kg) exceeds T2 (3.7mg/kg) in east sidewall
EX02GR179SW	06/04/20	N	Copper, Zinc	Copper (1,000mg/kg in floor, 6,000mg/kg in south sidewall) exceed, T2 criteria (620mg/kg) Zinc (1,500mg/kg in floor, 820 mg/kg in south sidewall) exceed, T2 criteria (790mg/kg)
EX02GR179SW	06/30/20	Y	Copper, Zinc	Backfilled
EX02SS310	06/02/20	Y	Lead	Backfilled
EX02B412	05/24/20	N	Benzo(a)pyrene	B(a)P exceeds T2 criteria (1.7mg/kg) in west sidewall (1.8mg/kg) and east sidewall (1.9mg/kg)
EX02B412 sidewall step- out	6/8/20	N	Benzo(a)pyrene	B(a)P exceeds T2 criteria (1.7mg/kg) in east sidewall (2.8 mg/kg)
EX02B398	05/20/20	Y	Lead	Ready for backfill
EX02B461	05/14/20	N	Benzo(a)pyrene Benzo(b)fluoranthene	B(a)P (2.4mg/kg) exceeds T2 (1.7mg/kg) in west sidewall
EX02B461- sidewall step- out	6/01/20	Y	Benzo(a)pyrene	Ready for backfill
EX02B100	5/14/20	N	Aroclor-1260	AR1260 (10mg/kg) exceeds T2 (3.7mg/kg) in sidewall SW-03
EX02B100- sidewall step- out	6/1/20	N	Aroclor-1260	AR1260 (9.3 mg/kg) exceeds T2 (3.7mg/kg) in east sidewall
EX02GR93SW (EOS-1)	5/14/20	N	Copper, Lead, TPH	Lead (1,300mg/kg, T2=1,300) TPH (11,903mg/kg, T2=3,500mg/kg) exceed T2 in sidewall SW-01-2.5
EX02GR93SW (EOS-1) – Sidewall step- out	6/1/2020	N	Lead, TPH	Lead (2,100mg/kg, T2=1,300) exceeds T2 criteria in north sidewall @ 2.5-feet
EX02GR93SW (EOS-1) – Sidewall step- out #2	6/30/20	Y	Lead	Ready for backfill

Analytical Results Final Confirmation Soil Samples

Remedial Action at Parcel E - Phase 1 Hunters Point Naval Shipyard, San Francisco, California Contract N62473-12-D-2005 CTO 0024

			Arsenic, Lead,			
EX02MW149			Benzo(a)pyrene	BaP (1.7mg/kg) exceeds T2 criteria		
	5/14/20	N	(BaP)	(1.7mg/kg) in sidewall SW-02		
EX02B149-						
sidewall step-						
out	06/01/20	Y	Benzo(a)pyrene	Ready for backfill		
EX02B122E	_ / /		Lead, Aroclor-1260,	Aroclor-1260 (12mg/kg) exceeded T2		
	5/13/20	N	Dieldrin	criteria (3.7mg/kg) in floor sample		
EX02B122E-	5/27/20	3.7	1 1260	D 1 C 1 1 C 1		
floor step-out	5/27/20	Y	Aroclor-1260	Ready for backfill		
EX02B403	5/13/20	Y	Manganese	Ready for backfill		
EX02B405	5/6/20	Y	Zinc	Ready for backfill		
EX02B442	5/6/20	Y	Aroclor-1260	Ready for backfill		
EX36B015			Copper, Mercury,			
EASODOTS	11/22/19	Y	TPH	Backfill complete		
EX36B033			Copper, Mercury,			
2110 02 000	11/22/19	Y	TPH	Backfill complete		
			1.1 DUG()	1 sidewall exceeded Tier 2 criteria for		
EX36B163	11/22/10	N	alpha-BHC (pest.),	Cu. Plan to conduct step-out		
	11/22/19	N	copper, mercury	excavation. a		
	11/25/19	Y	SVOCs	Backfill complete		
EX36B116	11/23/19	1	3,000	Backini complete		
	10/10/10	.				
EX04B030 -	12/10/19	N		2 1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Pre-				3 sidewalls exceeded Tier 2 criteria. Plan to extend excavation on 3 sides		
characterization				to 2 feet beyond pre-characterization		
characterization			PCBs, metals	locations.		
EX13B007	12/10/19	N	PCBs	100utions.		
Lilioboot	12/10/17	11	1 CD3	PCB above limit in 3 sidewalls		
EX72SS23	12/10/19	Y	Zinc	Backfill complete		
				<u> </u>		
EW0100250				PCB above limit in all 4 sidewalls and		
EX01SS350	12/10/19	N	PCBs	bottom		
	_	<u> </u>				
EX56B021	12/30/19	Y	Mercury	Backfill complete		
			j	<u> </u>		

Notes:

Table presents confirmation sample results unless otherwise noted.

^a Sidewall will be over-excavated 2-feet back from the original sidewall and laterally (10-feet maximum on each side of confirmation sample location). A confirmation sample will collected at the same depth as

Analytical Results Final Confirmation Soil Samples Remedial Action at Parcel E - Phase 1 Hunters Point Naval Shipyard, San Francisco, California Contract N62473-12-D-2005 CTO 0024

the original confirmation sample and analyzed for the constituent that exceeded Tier 2 criteria in the original confirmation sample.

Floor will be over-excavated 1-foot deeper and laterally (2.5-feet in each direction from the original confirmation sample location. A confirmation sample will collected at the same location as the original confirmation sample and analyzed for the constituent(s) that exceeded Tier 2 criteria in the original confirmation sample. Unless an additional step-down excavation extends the original planned excavation depth to below 5 feet, additional sidewall samples are not required and only a replacement bottom sample will be collected.

See Section 8.3.6 of RAWP and Section 17.1.2 of the SAP

Current Week and Two Week Look Ahead*

Parcel E Remedial Action – Phase 1 Hunters Point Naval Shipyard, San Francisco, CA Contract N62473-12-D-0005 CTO 0024

 EX02GR73SW Backfill excavations EX02B456 and EX02B412 	Tuesday • Weekly CQC Meeting • Continue EOS-1 excavations:	Wednesday Continue EOS-1 excavations:	Thursday • Continue EOS-1 excavations: ○ EX02B250	Continue EOS-1 excavations: EX02TA16A	Saturday No	Sunday No
 EX02GR73SW Backfill excavations EX02B456 and EX02B412 	Continue EOS-1 excavations:EX02GR73SWEX02B525	o EX02B525	1			
Backfill excavations EX02B456 and EX02B412	EX02GR73SWEX02B525		o EX02B250	ΕΥΩ2ΤΔ16Δ		E - I - I - I - I - I -
EX02B412	o EX02B525	 Post excavation sampling 			fieldwork	fieldwork
			Post excavation sampling	Post excavation sampling		
ISO-Pacific S3 Proof of Concept		 Waste stockpiling 	Waste stockpiling	Waste stockpiling		
· · · · · · · · · · · · · · · · · · ·	Post excavation sampling	 Screen Excavated Soil 	Screen Excavated Soil	Screen Excavated Soil		
vvaste stockpining	Backfill excavation EX02GR93SW	 ISO-Pacific S3 Proof of Concept 	ISO-Pacific S3 Proof of Concept	ISO-Pacific S3 Proof of		
Screen Excavated Soil	ISO-Pacific S3 Proof of Concept	 Backfill excavation EX02GR93SW 		Concept		
Rad Controls and support (all week)	Waste stockpiling					
	Screen Excavated Soil					
Air monitoring (all week)						
BMP Inspection/site maintenance (Daily)						
07/132020	07/14/2020	07/15/2020	07/16/2020	07/17/2020	07/18/2020	07/19/2020
Monday Mobilize to EOS-4	Tuesday	Wednesday Conduct excavations EOS-4	Thursday Conduct excavations EOS-4	Friday Conduct excavations EOS-4	Saturday No	Sunday No
	 Weekly CQC Meeting Conduct excavations EOS-4 	Post excavation sampling	Conduct excavations EOS-4 Post excavation sampling	Post excavation sampling	fieldwork	fieldwork
	Screen Excavated Soil	Waste stockpiling	Waste stockpiling	Waste stockpiling	liciawork	liciawork
Waste steekpiining	Load, Place, & Scan Soil on RSY Pads	Screen Excavated Soil	Screen Excavated Soil	Screen Excavated Soil		
Rad Controls and support (all week)UXO support (all week)	,					
Air monitoring (all week)		 Load, Place, & Scan Soil on RSY Pads 	Load, Place, & Scan Soil on RSY Pads	Load, Place, & Scan Soil on RSY Pads		
BMP Inspection/site maintenance (Daily)		Pads	Pads	RSY Pags		
Screen Excavated Soil						
Load, Place, & Scan Soil on RSY Pads						
234,1143, 4134,1134,114,114						
07/20/2020	07/21/2020	07/22/2020	07/23/2020	07/24/2020	07/25/2020	07/26/2020
Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
	Weekly CQC Meeting	Conduct excavations EOS-4	Conduct excavations EOS-4	Conduct excavations EOS-4	No	No
·	Conduct excavations EOS-4	 Post excavation sampling 	Post excavation sampling	Post excavation sampling	fieldwork	fieldwork
· Waste stockpining	Screen Excavated Soil	 Waste stockpiling 	Waste stockpiling	Waste stockpiling		
read Controls and Support (all week)	Load, Place, & Scan Soil on RSY Pads	 Screen Excavated Soil 	Screen Excavated Soil	Screen Excavated Soil		
UXO support (all week)		 Load, Place, & Scan Soil on RSY 	Load, Place, & Scan Soil on RSY	Load, Place, & Scan Soil on		
Air monitoring (all week) BMB Induction (aits maintenance (Dails))		Pads	Pads	RSY Pads		
BMP Inspection/site maintenance (Daily) Carron Function Call						
Screen Excavated Soil						
Load, Place, & Scan Soil on RSY Pads						

^{*}Subject to change based on field conditions